

Appendix D

List of Potentially Affected Special-Status Species



APPENDIX D

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The “Potential for Species to Occur” category is defined as follows:

None: The project site and/or immediate area does not support suitable habitat for a particular species. Alternatively, the project site is outside of the species known range.

Low Potential: The project site and/or immediate area only provides limited habitat for a particular species. In addition, the known range for a particular species may be outside of the project area.

Medium Potential: The project site and/or immediate area provides suitable habitat for a particular species.

High Potential: The project site and/or immediate area provides ideal habitat conditions for a particular species. Species is known to occur within the project area.

Species that have medium or high potential to be impacted by the proposed project are shown in **boldface** type.

**TABLE D-1
SPECIAL-STATUS SPECIES THAT MAY OCCUR IN THE PROJECT AREA**

Scientific Name Common Name	Status: Federal/State/CNPS	General habitat	Potential for Species to Occur
Invertebrates			
<i>Branchinecta conservatio</i> Conservancy fairy shrimp	FE/--/--	Lifecycle restricted to large, cool-water vernal pools with moderately turbid water.	Medium. Vernal pools are present on the project site and may support this species.
<i>Branchinecta lynchi</i> Vernal pool fairy shrimp	FT/--/--	Lifecycle restricted to vernal pools.	Medium. Vernal pools are present on the project site and may support this species.
<i>Desmocerus californicus dimorphus</i> Valley elderberry longhorn beetle	FT/--/--	Breeds and forages exclusively on elderberry shrubs (<i>Sambucus mexicana</i>) below 3,000 feet. Occurs only in the Central Valley of California.	Medium. Riparian areas are present on the project site and elderberry shrubs may be present. Focused surveys should be conducted.
<i>Lepidurus packardii</i> Vernal pool tadpole shrimp	FE/--/--	Lifecycle restricted to vernal pools.	Medium. Vernal pools are present on the project site and may support this species.

Scientific Name Common Name	Status: Federal/State/CNPS	General habitat	Potential for Species to Occur
<i>Linderiella occidentalis</i> California linderiella	--/--/--	Lifecycle restricted to vernal pools.	Medium. Vernal pools are present on the project site and may support this species.
Amphibian			
<i>Rana aurora draytonii</i> California red-legged frog	FT/CSC/--	Breeds in slow moving streams, ponds, and marshes with emergent vegetation forages in nearby uplands within about 200 feet.	Medium. Canyon streams within the Project area may be suitable for this species. California red-legged frogs are known from streams throughout Butte County.
Reptiles			
<i>Emys (=Clemmys) marmorata marmorata</i> Northwestern pond turtle	--/CSC/--	Ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Requires basking sites and suitable upland habitat for egg-laying. Nest sites most often characterized as having gentle slopes (<15%) with little vegetation or sandy banks.	Medium. Canyon streams within the Project area may provide suitable habitat for this species.
<i>Phrynosoma coronatum (frontale)</i> Coast (California) horned lizard	--/CSC/--	In a variety of habitats, most commonly in lowlands and sandy washes with scattered low bushes. Requires open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant ant/insect prey.	High. Species is known from the Project area.
<i>Thamnophis gigas</i> Giant garter snake	FT/ST/--	Generally inhabits marshes, sloughs, ponds, slow-moving streams, ditches, and rice fields that have water from early spring until mid-fall. Emergent vegetation (cattails and bulrushes), open areas for sunning and high ground for hibernation and cover.	None. Suitable habitat is not present for this species in the Project area.
Birds			
<i>Agelaius tricolor</i> Tricolored blackbird	--/CSC/--	Largely endemic to California, most numerous in the Central Valley and nearby vicinity. Typically requires open water, protected nesting substrate, and foraging grounds within vicinity of the nesting colony. Nests in dense thickets of cattails, tules, willows.	None. Riparian vegetation in the canyons and nearby water bodies are unlikely to support the dense thickets of wetland vegetation needed for nesting.
<i>Ardea herodias</i> Great blue heron	--/--/--	Groves of tall trees, especially near shallow water foraging areas such as marshes, tide-flats, lakes, rivers/streams and wet meadows.	Low. There is limited wetland habitat for this species.
<i>Buteo swainsoni</i> Swainson's hawk	--/ST/--	Forages in open plains, grasslands, and prairies typically nests in trees or large shrubs.	Low. Project area is at the northern end of this species nesting range.
<i>Circus cyaneus</i> Northern harrier	--/CSC/--	Nests in wet meadows and tall grasslands, forages in grasslands and marshes.	Medium. Open habitat may prove suitable for foraging for this species.
<i>Haliaeetus leucocephalus</i> Bald eagle	FPD, FT/SE/--	Nests in large trees with open branches along lake and river margins, usually within one mile of water.	Low. Habitat for this species is limited in the project area.
<i>Pandion haliaetus</i> Osprey	--/CSC/--	Builds large platform stick nests near fish-bearing water. Feeds primarily on fish in open waters of lakes, estuaries, bays, reservoirs, and within the surf zone.	Low. Habitat for this species is limited in the project area.
<i>Riparia riparia</i> Bank swallow	--/ST/--	Banks of rivers, creeks, lakes, and seashores nests in excavated dirt tunnels near the top of steep banks.	None. Habitat is not present for this species in the Project area.
Mammals			
<i>Lasionycteris noctivagans</i> Silver-haired bat	--/--/--	Summer habitats include coniferous forests, woodlands, and riparian habitats. Roosts in hollow trees, snags, buildings, rock crevices, caves, and under bark. Needs drinking water.	Medium. Project area may provide suitable habitat to support this species.

Scientific Name Common Name	Status: Federal/State/CNPS	General habitat	Potential for Species to Occur
Fishes			
<i>Hypomesus transpacificus</i> Delta smelt	FT/ST/--	Open surface waters in the Sacramento/San Joaquin Delta. Seasonally in Suisun Bay, Carquinez Strait and San Pablo Bay. Found in Delta estuaries with dense aquatic vegetation and low occurrence of predators. May be affected by downstream sedimentation.	None. Suitable habitat is not present for this species in the Project area.
<i>Oncorhynchus mykiss</i> Steelhead - Central Valley ESU	FT/--/--	This ESU enters the Sacramento and San Joaquin Rivers and their tributaries from July to May; with spawning from December to April. Young move to rearing areas in and through the Sacramento and San Joaquin Rivers, Delta, and San Pablo and San Francisco Bays.	None. Suitable habitat is not present for this species in the Project area.
<i>Oncorhynchus tshawytscha</i> Chinook Salmon - Central Valley Fall / Late Fall-Run ESU	--/CSC/--	This ESU enters the Sacramento and San Joaquin rivers and their tributaries from July to April; with spawning October to February. Young move to rearing areas in and through the Sacramento and San Joaquin Rivers, Delta, and San Pablo and San Francisco Bays.	None. Suitable habitat is not present for this species in the Project area.
<i>Oncorhynchus tshawytscha</i> Chinook Salmon Winter Run	FE/SE/--	This ESU enters the Sacramento River December to May; spawning peaks May and June. Upstream movement occurs more quickly than in spring run population. Young move to rearing areas in and through the Sacramento River, Delta, and San Pablo and San Francisco Bays.	None. Suitable habitat is not present for this species in the Project area.
<i>Oncorhynchus tshawytscha</i> Spring-Run Chinook Salmon	FT/ST/--	This ESU enters the Sacramento and San Joaquin Rivers and tributaries March to July spawning from late August to early October. Young move to rearing areas in and through the Sacramento and San Joaquin Rivers, Delta, and San Pablo and San Francisco Bays.	None. Suitable habitat is not present for this species in the Project area.
Plants			
<i>Allium jepsonii</i> Jepson's onion	--/--/1B.2	Cismontane woodland, coniferous forests on serpentinite or volcanic substrates.	Medium. There is suitable habitat within the Project area.
<i>Astragalus tener</i> var. <i>ferrisiae</i> Ferris's milk-vetch	--/--/1B.1	Annual herb occurring in vernal mesic meadow and seeps, and sub alkaline flats in valley and foothill grasslands. Blooms Apr-May. 5-75 meters elevation.	None. Suitable habitat is not present for this species in the Project area.
<i>Cardamine pachystigma</i> var. <i>dissectifolia</i> Dissected-leaved toothwort	--/--/3	Serpentine outcrops and gravelly serpentine talus in chaparral or lower montane coniferous forest. 255-2100m.	None. Suitable habitat is not present for this species in the Project area.
<i>Carex vulpinoidea</i> Fox sedge	--/--/2.2	Perennial herb occurring in freshwater marshes and swamps, and in riparian woodland. Found at elevations 30-1200 meters and blooms May-June.	None. Suitable habitat is not present for this species in the Project area.
<i>Castilleja rubicundula</i> ssp. <i>rubicundula</i> Pink creamsacs	--/--/1B.2	Annual herb occurring in open areas of chaparral, in cismontane woodland, in meadows and seeps, and on serpentinite substrate in valley and foothill grassland. Found at 20-900 m elevation. Blooms Apr-Jun.	Medium. There is suitable habitat within the Project area.
<i>Chamaesyce hooveri</i> Hoover's spurge	FT/--/1B.2	Found in vernal pools on volcanic mudflow or clay substrate. Blooms Jul-Aug.	None. Suitable habitat is not present for this species in the Project area.

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<i>Clarkia biloba</i> ssp. <i>brandegeeae</i> Brandegee's clarkia	--/--/1B.2	Annual herb that occurs in chaparral and cismontane woodland, often in roadcuts, at elevations 225-915 m. Blooms May-July.	Medium. There is suitable habitat within the Project area.
<i>Clarkia gracilis</i> ssp. <i>albicaulis</i> White-stemmed clarkia	--/--/1B.2	Annual herb occurring in chaparral and in cismontane woodland, sometimes on serpentinite substrate. Found at elevations 245-1085 m. Blooms May-July.	Medium. There is suitable habitat within the Project area.
<i>Clarkia mildrediae</i> ssp. <i>mildrediae</i> Mildred's clarkia	--/--/1B.3	Annual herb occurring in cismontane woodland and in lower montane coniferous forest, usually on sandy granitic substrate. Found at elevations 245-1710 m. Blooms May-August.	None. Suitable habitat is not present for this species in the Project area.
<i>Clarkia mosquinii</i> Mosquin's clarkia	--/--/1B.1	Annual herb occurring in cismontane woodland and in lower montane coniferous forest, usually on rocky substrate along roadsides. Found at elevations 185-1170 m. Blooms May-July.	Medium. There is suitable habitat within the Project area.
<i>Delphinium recurvatum</i> Recurved larkspur	--/--/1B.2	Perennial herb occurring in chenopod scrub, cismontane woodland, and in alkaline substrate in valley and foothill grassland. Found at 3-750 meters elevation. Blooms Mar-May.	Medium. There is suitable habitat within the Project area.
<i>Eleocharis quadrangulata</i> Four-angled spikerush	--/--/2.2	Perennial herb occurring in freshwater marshes and swamps at 30-500 m elevation. Blooms May-September.	None. Suitable habitat is not present for this species in the Project area.
<i>Erodium macrophyllum</i> Round-leaved filaree	--/--/2.1	Generally found in Valley grasslands and foothill woodlands, 0-3937 feet in elevation. Blooms Mar-May.	Medium. There is suitable habitat within the Project area.
<i>Fritillaria eastwoodiae</i> Butte County fritillary	--/--/3.2	Bulbiferous herb that grows in chaparral, cismontane woodland, and lower montane coniferous forest. Usually found on dry slopes but also found in wet places. Soil can be serpentine, red clay, or sandy loam. Occurs at elevations 40-1500m. Blooms March-May.	Medium. There is suitable habitat within the Project area.
<i>Fritillaria pluriflora</i> Adobe-lily	--/--/1B.2	Bulbiferous herb occurring in chaparral, cismontane woodland, and valley and foothill grassland, often on adobe or serpentine substrate. Blooms Feb-Apr. 65-705 meters elevation.	Medium. There is suitable habitat within the Project area.
<i>Hibiscus lasiocarpus</i> Rose-mallow	--/--/2.2	Prefers freshwater marshes and swamps. Blooms Jun-Sep. 0-120 meters.	None. Suitable habitat is not present for this species in the Project area.
<i>Juncus leiospermus</i> var. <i>ahartii</i> Ahart's dwarf rush	--/--/1B.2	Annual herb occurring in mesic valley and foothill grasslands. Found at 30-100 meters elevation. Blooms March-May.	Medium. There is suitable habitat within the Project area.
<i>Juncus leiospermus</i> var. <i>leiospermus</i> Red Bluff dwarf rush	--/--/1B.1	Annual herb occurring in chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland, and in vernal mesic pools. Found at 35-1020 m elevation. Blooms March-May.	High. Species known from the Project area.
<i>Limnanthes floccosa</i> ssp. <i>californica</i> Butte County meadowfoam	FE/SE/1B.1	Annual herb occurring in mesic valley and foothill grassland and vernal pools. Found at 50-930 m elevation. Blooms March-May.	High. Species known from the Project area.
<i>Monardella douglasii</i> ssp. <i>venosa</i> Veiny monardella	--/--/1B.1	Annual herb occurring in cismontane woodland, and in heavy clay substrate in valley and foothill grasslands. Found at 60-410 m elevation. Blooms May-July.	Medium. There is suitable habitat within the Project area.

Scientific Name Common Name	Status: Federal/State/CNPS	General habitat	Potential for Species to Occur
<i>Orcuttia pilosa</i> Hairy orcutt grass	FE/SE/1B.1	Endemic to vernal pools of the Sacramento Valley.	None. Project area is outside of known species range.
<i>Orcuttia tenuis</i> Slender orcutt grass	FT/SE/1B.1	Annual herb occurring in vernal pools. 35-1760 m elevation. Blooms May-October.	None. Project area is outside of known species range.
<i>Sagittaria sanfordii</i> Sanford's arrowhead	--/--/1B.2	Found in assorted freshwater habitats including marshes, swamps, and seasonal drainages. Blooms May-Oct.	None. Suitable habitat is not present for this species in the Project area.
<i>Senecio eurycephalus</i> var. <i>lewisrosei</i> Cut-leaved ragwort	--/--/1B.2	Perennial herb occurring in chaparral, cismontane woodland, and on serpentinite substrate in lower montane coniferous forest. Found at 285-1890 m elevation. Blooms March-September.	Medium. There is suitable habitat within the Project area.
<i>Sidalcea robusta</i> Butte County checkerbloom	--/--/1B.2	Rhizomatous herb occurring in chaparral and cismontane woodland. Found at 90-1600 m elevation. Blooms April-June.	Medium. There is suitable habitat within the Project area.
<i>Trifolium jokerstii</i> Butte County golden clover	--/--/1B.2	Annual herb occurring in mesic valley and foothill grassland and in vernal pools. Found at 50-385 m elevation. Blooms April-May.	High. Species known from the Project area.
<i>Tuctoria greenei</i> Greene's tuctoria	FE/SR/1B.1	Occurs under vernal-flooded conditions in vernal-pool habitats.	None. Project area is outside of known species range.

Sources: CNDDB (2006); CNPS (2006); USFWS (2006).

Status Codes

Federal		State	
FE	= Endangered	SE	= Endangered
FT	= Threatened	ST	= Threatened
FPE	= Proposed Endangered	SR	= Rare
FPT	= Proposed Threatened	SFP	= Fully Protected
FC	= Candidate	CSC	= California Department of Fish and Game Special Concern species

California Native Plant Society

List 1B	= Plants rare, threatened, or endangered in California and elsewhere
List 2	= Plants rare, threatened, or endangered in California, but more common elsewhere
List 3	= Plants about which we need more information--a review list
List 4	= Plants of limited distribution--a watch list